

Inventor(s): Paul Andrew Abraham
Serial No.: 09/702,036
Filed: October 30, 2000
For: HAIR CLIPPER WITH PIVOTING CLIPPER HEAD ASSEMBLY
Art Unit: 3724
Examiner: Peterson, Kenneth E.

Attorney Docket No.: 833.0168USU

AMENDMENTS TO THE CLAIMS:

1. (currently amended) A hair clipper comprising:

a clipper head having a cutting assembly with a stationary blade and a reciprocating blade cooperating to provide a cutting edge;

a handle having a longitudinal axis; and

a head connector for connecting the clipper head and the handle so that the clipper head pivots about an axis of rotation that is perpendicular to the longitudinal axis of the handle and offset from said cutting edge,

wherein the clipper head can be fixedly positioned in any one of at least three preset pivot positions, the at least three preset pivot positions having at least a first position in which the cutting edge is substantially angled with respect to a cutting surface, and at least a second position in which the cutting edge is substantially parallel with respect to the cutting surface.

2. (previously presented) The hair clipper of claim 1, wherein the head connector comprises:

at least one arm being disposed on the handle and offset from the longitudinal axis of the handle;

a first connector being disposed on the at least one arm; and

a second connector being positioned on the clipper head, wherein the first and second connectors join the clipper

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head to the arm of the handle such that the clipper head pivots about the axis of rotation.

3. (canceled).

4. (previously presented) The hair clipper of claim 1, wherein the head connector comprises:

at least one arm being disposed on the handle and offset from the longitudinal axis of the handle;

a first connector being disposed on the at least one arm; and

a second connector being positioned on the clipper head, wherein the first and second connectors join the clipper head to the arm of the handle such that the clipper head pivots about the axis of rotation and such that the clipper head is securable in any one of the at least three preset pivot positions.

5. (previously presented) The hair clipper of claim 4, wherein the first connector is a first gear, the second connector is a second gear, and the head connector has a releasing mechanism for meshing and unmeshing the first gear and the second gear, such that when the first gear is meshed with the second gear the clipper head is secured in any one of the at least three preset pivot positions, and when the first gear is unmeshed from the second gear the clipper head is pivotable about the axis of rotation.

6. (previously presented) The hair clipper of claim 5, wherein the releasing mechanism for meshing and unmeshing

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comprises a release button adapted to mesh the first gear with the second gear and adapted to be depressed to unmesh the first gear from the second gear.

7. (previously withdrawn) The hair clipper of claim 1, wherein the reciprocating means comprises a motor.

8. (previously withdrawn) The hair clipper of claim 7, wherein the handle further comprises:

a switch having an on position and an off position, and
a cord with a plug,

wherein the motor is operatively coupled to the cord when the switch is in the on position such that power flows to the motor from a standard household electrical outlet that receives the plug.

9. (previously withdrawn) The hair clipper of claim 7, further comprising a rechargeable battery operatively coupled to the motor.

10. (previously withdrawn) The hair clipper of claim 9, wherein the handle further comprises:

a switch having an on position and an off position, and
a plug,

wherein the motor is operatively coupled to the battery when the switch is in the on position such that power flows from the battery to the motor.

11. (previously withdrawn) The hair clipper of claim 10, wherein the handle further comprises:

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a recharging indicator and wherein the battery is operatively coupled to the plug and the recharging indicator such that when the switch is in the off position power flows from a standard household electrical outlet that receives the plug to deliver power to recharge the battery and to operate the recharging indicator.

12. (previously withdrawn) The hair clipper of claim 11, wherein the recharging indicator has a first state indicative of the battery recharging and a second state indicative of the battery fully recharged.

13. (previously withdrawn) The hair clipper of claim 11, wherein the recharging indicator comprises an LED, said LED is illuminated when the battery is recharging and is not illuminated when the battery is fully recharged.

14. (currently amended) A hair clipper comprising:
a clipper head having pivot points positioned on opposite sides thereof, a stationary blade having teeth and a reciprocating blade having teeth, wherein the teeth of the stationary blade are substantially parallel to the teeth of the reciprocating blade to form a cutting edge; and

a handle having a longitudinal axis, a pair of arms, a connector disposed on each arm, and a mechanism for reciprocating the reciprocating blade such that hair positioned within the teeth of the stationary blade are cut by the teeth of the reciprocating blade,

wherein each connector engages one of the pivot points such that the clipper head can be fixedly positioned in any one of at

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least three preset pivot positions about an axis of rotation perpendicular to the longitudinal axis of the handle and both parallel to and offset from the cutting edge, the at least three preset pivot positions having at least a first position in which the cutting edge is substantially angled with respect to a cutting surface, and at least a second position in which the cutting edge is substantially parallel with respect to the cutting surface.

15. (canceled).

16. (previously presented) The hair clipper of claim 14, further comprising a mechanism for selectively releasing and securing the connectors and the pivot points such that when the clipper head is secured in any one of the at least three preset pivot positions the connectors and pivot points are secured, and the clipper head is pivotable about the axis of rotation when the connectors and pivot points are released.

17. (previously presented) The hair clipper of claim 16, wherein the connectors are first gears, the pivot points are second gears, and the releasing and securing mechanism is adapted to release and secure the first gears with the second gears, respectively, such that when the first gears are secured with the second gears the clipper head is secured in any one of the at least three preset pivot positions, and the clipper head is pivotable about the axis of rotation when the first gears are released from the second gears.

18. (previously presented) The hair clipper of claim 16,

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wherein the releasing and securing mechanism has a release button adapted to normally secure the connectors and the pivot points, and adapted to be depressed to release the connectors and the pivot points.

19. (currently amended) An electric hair clipper comprising:

a clipper head having a cutting assembly with a stationary blade and a reciprocating blade cooperating to provide a cutting edge;

a handle having a longitudinal axis, and housing a motor operatively connected to the cutting assembly such that hair positioned within the cutting edge is cut; and

a head connector for connecting the clipper head and the such that the clipper head can be fixedly positioned in any one of at least three preset pivot positions about an axis of rotation that is perpendicular to the longitudinal axis of the handle and offset from said cutting edge,

wherein the at least three preset pivot positions having at least a first position in which the cutting edge is substantially angled with respect to a cutting surface, and at least a second position in which the cutting edge is substantially parallel with respect to the cutting surface.

20. (canceled).

21. (new) The hair clipper of claim 1, wherein said axis of rotation is offset from said cutting edge in a direction toward said handle.

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22. (new) The hair clipper of claim 1, wherein said axis of rotation remains offset from said cutting edge in any one of said at least three preset pivot positions.